The Journal of

Membrane Biology

An international journal
for studies on the structure, function and genesis
of biomembranes

Volume 103 1988

Editorial Board

W.R. Loewenstein, Miami, Editor-in-Chief

Q. Al-Awqati, Columbia
G. Blobel, Rockefeller
D. Branton, Harvard
P. Cuatrecasas, Glaxo
J.M. Diamond, California, L.A.
D. Engelman, Yale
S. Fleischer, Vanderbilt
J.G. Forte, California, Berkeley
G. Guidotti, Harvard
J. Handler, N.I.H.
D.A. Haydon, Cambridge
A. Helenius, Yale
L. Heppel, Cornell
W.L. Hubbell, California, L.A.
R.B. Kelly, California, S.F.
A. Klug, Cambridge
P. Läuger, Konstanz
S.E. Luria, MIT
E.A.C. MacRobbie, Cambridge
V.T. Marchesi, Yale
H.M. McConnell, Stanford
S. McLaughlin, SUNY, Stony Brook
I. Mellman, Yale
C. Miller, Brandeis
H. Murer, Zurich
G.E. Palade, Yale
E. Racker, Cornell
H. Reuter, Bern
B. Sakmann, Max-Planck, Göttingen
R.W. Schekman, California, Berkeley
S.G. Schultz, Texas
S.J. Singer, California, S.D.
C.L. Slayman, Yale
K.R. Spring, N.I.H.
C.F. Stevens, Yale
W. Stoeckenius, California, S.F.
D. Urry, Alabama
H.H. Ussing, Copenhagen

D.J. Fritts, Assistant to the Editor

Springer International

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions, also in microform, is transferred to the publisher

The use of registered names, trademarks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

Printed in West Germany

© 1988 by Springer-Verlag New York Inc.

Author Index

Adragna, N.C., *see* Zade-Oppen, A.M.M., et al. 217
Alder, G.M., *see* Bashford, C.L., et al. 79
Andersen, J.P., *see* Jørgensen, P.L. 95
Bashford, C.L., Alder, G.M., Graham, J.M., Menestrina, G., Pasternak, C.A.: Ion Modulation of Membrane Permeability: Effect of Cations on Intact Cells and on Cells and Phospholipid Bilayers Treated with Pore-Forming Agents 79
Basson, M., *see* George, E.B., et al. 245
Cerana, R., *see* Colombo, R., et al. 227
Chang, H., Yamashita, N., Matsunaga, H., Kurokawa, K.: Ca^{2+}-Activated K^+ Conductance Causes Membrane Hyperpolarizations in a Monkey Kidney Cell Line (JTC-12) 263
Chang, L., *see* Weinman, E.J., et al. 237
Ciani, S., Ribalet, B.: Ion Permeation and Rectification in ATP-Sensitive Channels from Insulin-Secreting Cells (RINm5F): Effects of K^+, Na^+ and Mg^{2+} . . 171
Colombini, M., *see* Holden, M.J. 205
Colombo, R., Cerana, R., Lado, P., Peres, A.: Voltage-Dependent Channels Permeable to K^+ and Na^+ in the Membrane of *Acer pseudoplatanus* Vacuoles . . 227
Cragoe, E.J. Jr., *see* Jentsch, T.J., et al. 29
Dinh, Q., *see* Weinman, E.J., et al. 237
Dubinsky, W.P., *see* Weinman, E.J., et al. 237
Dunham, P.B., *see* Feit, P.W., et al. 135
Ernst, L.A., *see* George, E.B., et al. 245
Feit, P.W., Hoffmann, E.K., Schiødt, M., Kristensen, P., Jessen, F., Dunham, P.B.: Purification of Proteins of the Na/Cl Cotransporter from Membranes of Ehrlich Ascites Cells Using a Bumetanide-Sepharose Affinity Column 135
Fichtner, H., *see* Kohlhardt, M., et al. 283
Fischer, D.G., *see* Jentsch, T.J., et al. 29
Fisher, K., *see* Weinman, E.J., et al. 237
Freedman, J.C., *see* George, E.B., et al. 245
Fröbe, U., *see* Kohlhardt, M., et al. 283
Gallin, E.K., McKinney, L.C.: Patch-Clamp Studies in Human Macrophages: Single-Channel and Whole-Cell Characterization of Two K^+ Conductances 55
Gallin, E.K., *see* McKinney, L.C. 41
George, E.B., Nyirjesy, P., Basson, M., Ernst, L.A., Pratap, P.R., Freedman, J.C., Waggoner, A.S.: Impermeant Potential-Sensitive Oxonal Dyes: I. Evidence for an "On-Off" Mechanism 245
Giebeler, H., *see* Lichtenberg, H.C., et al. 255
Graham, J.M., *see* Bashford, C.L., et al. 79
Handler, J.S., *see* Harris, H.W. Jr. 207
Handler, J.S., *see* Strange, K., et al. 17
Hansen, U.-P., *see* Stein, S. 149
Harris, H.W. Jr., Handler, J.S.: The Role of Membrane Turnover in the Water Permeability Response to Antidiuretic Hormone (*topical review*) 207
Harris, H.W. Jr., *see* Strange, K., et al. 17
Helbig, H., *see* Jentsch, T.J., et al. 29
Höfer, M., *see* Lichtenberg, H.C., et al. 255
Hoffmann, E.K., *see* Feit, P.W., et al. 135
Holden, M.J., Colombini, M.: On the Reported Channel-Forming Activity of HmT Toxin (*letter*) 205
Hollwede, H., *see* Jentsch, T.J., et al. 29
Janicke, I., *see* Jentsch, T.J., et al. 29
Janoshazi, A., Ojcius, D.M., Kone, B., Seifter, J.L., Solomon, A.K.: Relation Between the Anion Exchange Protein in Kidney Medullary Collecting Duct Cells and Red Cell Band 3 181
Jentsch, T.J., Korbmacher, C., Janicke, I., Fischer, D.G., Stahl, F., Helbig, H., Hollwede, H., Cragoe, E.J. Jr., Keller, S.K., Wiederholt, M.: Regulation of Cytoplasmic pH of Cultured Bovine Corneal Endothelial Cells in the Absence and Presence of Bicarbonate 29
Jessen, F., *see* Feit, P.W., et al. 135
Jirounek, P., Vitus, J., Pralong, W.F., Straub, R.W.: Calcium Efflux and Intracellular Exchangeable Calcium in Mammalian Nonmyelinated Nerve Fibers 121
Jørgensen, P.L., Andersen, J.P.: Structural Basis for E_1–E_2 Conformational Transitions in Na,K-Pump and Ca-Pump Proteins (*topical review*) 95
Keller, S.K., *see* Jentsch, T.J., et al. 29
Knight, D.E.: An Appreciation of Peter Baker 1
Kohlhardt, M., Fichtner, H., Fröbe, U.: Predominance of Poorly Reopening Single Na^+ Channels and Lack of Slow Na^+ Inactivation in Neonatal Cardiocytes 283
Kone, B., *see* Janoshazi, A., et al. 181
Korbmacher, C., *see* Jentsch, T.J., et al. 29
Kristensen, P., *see* Feit, P.W., et al. 135
Kurokawa, K., *see* Chang, H., et al. 263
Lado, P., *see* Colombo, R., et al. 227
Lichtenberg, H.C., Giebeler, H., Höfer, M.: Measurements of Electrical Potential Differences Across Yeast Plasma Membranes with Microelectrodes are Consistent with Values from Steady-State Distribution of Tetraphenylphosphonium in *Pichia humboldtii* 255
Matsunaga, H., *see* Chang, H., et al. 263
McKinney, L.C., Gallin, E.K.: Inwardly Rectifying Whole-Cell and Single-Channel K Currents in the Murine Macrophage Cell Line J774.1 41
McKinney, L.C., *see* Gallin, E.K. 55
Menestrina, G., *see* Bashford, C.L., et al. 79
Nyirjesy, P., *see* George, E.B., et al. 245
Ohkawa, T., Tsutsui, I.: Electrical Tolerance (Breakdown) of the *Chara corallina* Plasmalemma: I. Necessity of Ca^{2+} 273
Ojcius, D.M., *see* Janoshazi, A., et al. 181
Pasternak, C.A., *see* Bashford, C.L., et al. 79
Peres, A., *see* Colombo, R., et al. 227
Pfeffer, S.R.: Mannose 6-Phosphate Receptors and Their Role in Targeting Proteins to Lysosomes (*topical review*) 7
Pralong, W.F., *see* Jirounek, P., et al. 121
Pratap, P.R., *see* George, E.B., et al. 245
Reuss, L., *see* Stoddard, J.S. 191
Ribalet, B., *see* Ciani, S. 171
Schiødt, M., *see* Feit, P.W., et al. 135
Seifter, J.L., *see* Janoshazi, A., et al. 181
Shenolikar, S., *see* Weinman, E.J., et al. 237
Shoshan-Barmatz, V.: Activation of Ca^{2+} Release in Isolated Sarcoplasmic Reticulum 67
Solomon, A.K., *see* Janoshazi, A., et al. 181
Stahl, F., *see* Jentsch, T.J., et al. 29
Stein, S., Hansen, U.-P.: Involvement of Photosynthesis in the Action of Temperature on Plasmalemma Transport in *Nitella* 149
Steplock, D., *see* Weinman, E.J., et al. 237
Stoddard, J.S., Reuss, L.: Voltage- and Time Dependence of Apical Membrane Conductance During Current Clamp in *Necturus* Gallbladder Epithelium 191

Strange, K., Willingham, M.C., Handler, J.S., Harris, H.W. Jr.: Apical Membrane Endocytosis via Coated Pits is Stimulated by Removal of Antidiuretic Hormone from Isolated, Perfused Rabbit Cortical Collecting Tubule 17
Straub, R.W., *see* Jirounek, P., et al. 121
Tester, M.: Pharmacology of K^+ Channels in the Plasmalemma of the Green Alga *Chara corallina* 159
Tosteson, D.C., *see* Zade-Oppen, A.M.M., et al. 217
Tsutsui, I., *see* Ohkawa, T. 273
Vitus, J., *see* Jirounek, P., et al. 121
Waggoner, A.S., *see* George, E.B., et al. 245
Weinman, E.J., Dubinsky, W.P., Fisher, K., Steplock, D., Dinh, Q., Chang, L., Shenolikar, S.: Regulation of Reconstituted Renal Na^+/H^+ Exchanger by Calcium-Dependent Protein Kinases 237
Wiederholt, M., *see* Jentsch, T.J., et al. 29
Willingham, M.C., *see* Strange, K., et al. 17
Yamashita, N., *see* Chang, H., et al. 263
Zade-Oppen, A.M.M., Adragna, N.C., Tosteson, D.C.: Effects of pH, Potential, Chloride and Furosemide on Passive Na^+ and K^+ Effluxes from Human Red Blood Cells 217

Covered in *Current Contents, SCI, ASCA,* and *ISI/BIOMED*